|   |                   |                        |                    |                |         |              |   |  |                     |             |                 | 1          | 10/646,/44 |                  |                    |  |                 |          |              |            |              |              | Art Unit                               |          |          |            |           |                 |  |            |  |
|---|-------------------|------------------------|--------------------|----------------|---------|--------------|---|--|---------------------|-------------|-----------------|------------|------------|------------------|--------------------|--|-----------------|----------|--------------|------------|--------------|--------------|--|----------|----------|------------|-----------|-----------------|--|------------|--|
|   |                   |                        |                    |                |         |              |   |  |                     |             |                 |            |            | Examiner         |                    |  |                 |          |              |            |              |              |  | Un       | H        |            |           |                 |  |            |  |
|   |                   |                        |                    |                |         |              |   |  |                     |             |                 |            | - 1        | Vicky A. Johnson |                    |  |                 |          |              |            |              |              | 36                                     | QΩ       |          |            |           |                 |  |            |  |
| prot non come cuit state still facil stan etci teet |                   |                        |                    |                |         |              |   |  |                     |             |                 |            |            |                  | VICKY M. JUITISUIT |  |                 |          |              |            |              |              |  | 30       | 02       |            |           |                 | _ـــــــــــــــــــــــــــــــــــــ |            |  |
| <del></del>   |                   |                        |                    |                |         |              |   |  |                     |             |                 |            |            |                  | 7                  |  |                 |          |              |            |              |              |  |          |          |            |           |                 |  |            |  |
|   | √ Rejected – (    |                        |                    |                |         |              |   |  |                     |             | (Through numera |            |            |                  |                    |  | <b> </b>        | Non-E    |              |            | lected       |              |  | Appeal   |          |            |           |                 |  |            |  |
|   |                   |                        |                    |                |         |              |   |  |                     | Cancelled   |                 |            |            |                  |                    | N Non-Elected                          |                 |          |              |            | 1            | A            | ļ                                      |          |          |            | _         |                 |  |            |  |
|   |                   | = Allowed              |                    |                |         |              |   |  |                     |             |                 | Destricted |            |                  |                    |  | ١.              |          | Interference |            |              | 1            |  | Objected |          |            |           |                 |  |            |  |
|   |                   |                        | =                  | AJI            | l0W     | eq           |   | +  |                     |             | Restricted      |            |            |                  |                    |  |                 |          |              | 0          | Objected     |              |  |          |          |            |           |                 |  |            |  |
|   |                   | L.,                    |                    |                |         |              |   |  |                     |             |                 |            |            |                  |                    |  |                 |          |              |            |              |              |  |          |          |            |           |                 |  |            |  |
|   | Clair             |                        |                    | Date           |         |              |   | e  |                     |             | CI              | aim        |            |                  |                    | Dat                                    | <u>e</u>        |          |              | ·]         | C            | laim         |  |          |          | Date       | <u>e</u>  |                 |  | ]          |  |
|   |                   |                        | 5005               | ुं             |         | Т            |   | Τ  | П                   |             |                 | -a         |            |                  |                    |  |                 |          |              | ,          | <b> </b>     | <del>-</del> |  |          |          |            |           |                 |  |            |  |
|   | Final             |                        | 3                  | Ŋ              |         | 1            |   |  | ]                   |             | Final           | gin        |            |                  |                    |  |                 |          |              |            | Final        | Original     |  |          |          |            |           |                 |  |            |  |
|   | <b>E</b>          | Original               | 5                  | 9              |         |              |   |  | 1                   |             | 1               | Original   |            | - 1              |                    | 1                                      | l               |          |              |            | L            | ő            |  |          |          |            |           |                 | 1.                                     |            |  |
|   |                   | 1 ,                    |                    | 2              |         | ╀            | +   | +  | H                   |             | -               | 51         | ╌┨         | +                | +                  | +                                      | -               | H        | +            | ┨          | -            | 101          | $\vdash$                               | $\dashv$ | +-       | ┼─         |           | $\vdash \vdash$ | +                                      | ┥          |  |
|   | -                 | 2                      | +                  | +              | +       | 十            | +   | +  | ┨                   | $\dashv$    |                 | 52         |            | $\dashv$         | +                  | +-                                     |                 |          | +            | 1          |              | 102          |  | 7        | +        |            | -         |                 |  | <b>†</b> . |  |
|   |                   | 3                      | +                  | H              | $\top$  | 十            | +-  | 1  |                     | <b>T</b>    |                 | 53         | $\Box$     |                  |                    | 1.                                     |                 |          |              | ]          |              | 103          |  |          |          |            |           |                 |  | j          |  |
|   |                   | 4                      |                    | $\prod$        |         |              |   |  |                     |             |                 | 54         |            |                  |                    |  |                 |          |              | ] .        |              | 104          |  |          |          |            |           | $\Box$          | $\perp$                                | ]          |  |
|   |                   | 5                      |                    | Щ.             |         | 1            |   | <u> </u>   |                     | _           |                 | 55         | Ш          | $\dashv$         |                    | ļ.,                                    |                 | Щ        | _            | ╣.         |              | 105          |  | $\perp$  | ┿-       | <u> </u>   |           |                 | $\dashv$                               | 4          |  |
|   |                   | 6 1                    | $\downarrow$       | ₩              | -       | +            | +   | ╄  | ┦┵                  | _           |                 | 56         |            | $\rightarrow$    | -                  | +-                                     | ├               |          | -            | - }        |              | 106          |  | -        | +        | -          | -         |                 |  | 4          |  |
|   |                   | 7   <del> </del> 8   1 | ╬                  | ╫╴             | +       | +            | +   | ╀  | H                   | $\dashv$    |                 | 57<br>58   |            | $\dashv$         | +                  | ╫                                      | ├               | $\vdash$ |              | ┨          |              | 107.         |  |          |          | -          | -         | $\vdash$        |  | 4          |  |
|   |                   | <del>}</del>           | +                  | ╫              | ╁       | +            | +-  | ╁┈   | ╂┤                  | ┪           | <u> </u>        | 59         | $\vdash$   | -                | - -                | +                                      | $\vdash$        | H        | +            | ┤``        | -            | 109          |  | _        | -        |            |           | $\sqcap$        | +                                      | 1          |  |
|   |                   | 10                     | +                  | H              | +       | +            | +   | ╁  |                     | <b>-</b>  . |                 | 60         |            | 7                | $\top$             | 1                                      |                 | H        |              | 7.         |              | 110          |  |          |          |            |           |                 |  | 1          |  |
|   |                   | 11                     |                    |                |         |              |   |  |                     |             |                 | 61         |            |                  |                    |  |                 |          |              | ] [        |              | 111          |  |          |          |            |           | $\Box$          | $\Box$                                 | _]         |  |
|   |                   | 12                     | $\perp$            | $\perp$        | $\perp$ | Ţ            | Ţ   | L  |                     |             |                 | 62         |            | _                |                    |  | <u> </u>        | $\sqcup$ |              | ۱.         | :            | 112          |  | $\perp$  | _        | -          | $\square$ | $\square$       |  | -          |  |
|   | —                 | 13                     | 1                  | $\vdash$       | +       | ╄            | +-  | ╀  | igwdap              | -           |                 | 63         |            |                  | +                  | $\perp$                                |                 |          | - -          | -          |              | 113          | $\longrightarrow$                      | $\dashv$ | -        |            | -         |                 | +                                      | 4          |  |
|   |                   | 14<br>15               | +                  | ╂┼             | +       | ╫            | +-  | ╂  | ╀                   |             | -               | 65         |            | +                | ╌                  |  |                 | $\dashv$ |              | -          | -            | 114          | -                                      |          |          | -          |           | $\dashv$        | +                                      | ┥          |  |
|   | $\longrightarrow$ | 16                     | +                  | ₩              | +       | 十            | +   | $\vdash$   | ╂╾┼                 | $\dashv$    | _               | 66         |            | -                | +                  | +                                      |                 |          | $\dashv$     | 1          |              | 116          |  | +        |          |            |           |                 | <del> </del>                           | ┥          |  |
|   |                   | 17                     | +                  | H              | - -     | 十            | +   | †  | $\Box$              | $\dashv$    | -               | 67         |            | +                | $\top$             | +                                      |                 | $\Box$   | $\top$       | 1          |              | 117          |  |          | +-       |            | П         |                 |  |            |  |
|   |                   | 18                     |                    |                |         |              |   |  |                     |             |                 | 68         |            |                  |                    |  |                 |          |              | ]: :       |              | 118          |  |          |          |            |           |                 | $\Box$                                 | ]          |  |
|   |                   | 19                     |                    | 仜              |         | I            | I   | 匚  | П                   |             |                 | 69         |            |                  |                    |  |                 |          |              | ] ;;;      |              | 119          |  |          |          |            |           |                 |  | ]          |  |
|   |                   | 20 \                   | 4                  |                | 4-      | ╁            | ╀   | ╄  | $\vdash$            | _           | <u> </u>        | 70         |            | _                |                    | +-                                     | _               | $\dashv$ |              |            | <del> </del> | 120          |  | -        | +        |            | $\square$ |                 |  | 4          |  |
|   |                   | 21                     | ╀                  | +              |         | ╁            | +-  | ╂  | ╌┤                  |             |                 | 71         | $\vdash$   | $\dashv$         | +                  |  | $\vdash$        | $\vdash$ |              | -          | <u> </u>     | 121          |  | +        |          |            |           | +               |  | -          |  |
|   |                   | 23                     | +                  | 十              | -       | 十            | +-  | ╂  |                     | $\dashv$    | <u> </u>        | 73         | $\vdash$   | 十                | +                  | +                                      | -               | $\vdash$ | $\dashv$     | ۱,,        | :            | 123          |  | +        | 1        |            |           | $\neg$          | $\dashv$                               | 1          |  |
| ì   |                   | 24                     | +                  | +              | +       | 十            | +   | <del>                                     </del> | 1 1                 | ヿ           | -               | 74         | $\Box$     | _                | $\top$             |  |                 |          |              | ٦.         |              | 124          |  |          | 1        |            |           |                 |  | · ·        |  |
| Ì   | - 2               | 25                     |                    | 工              |         | I            |   |  |                     |             |                 | 75         |            |                  |                    |  |                 |          |              | ] (        |              | 125          |  |          |          |            |           |                 | 工                                      | ]          |  |
|   |                   | 26                     | $\perp$            | $\perp$        |         | $\perp$      | $\perp$   |  |                     |             |                 | 76         | $\Box$     | _                |                    |  | _               |          |              |            |              | 126          | .                                      | _ _      | _        |            |           | $\rightarrow$   |  | _          |  |
| }   |                   | 27                     | ╀                  | +              | +       | +            | +-  | <del> </del>                                     | $\sqcup$            | _           | <u> </u>        | 77         |            | $\dashv$         |                    | +-                                     | -               | -+       |              | -          | <u> </u>     | 127          |  | +        |          | -          |           |                 | +                                      | 4          |  |
| }   |                   | 28<br>29               | ╁                  | ┿              |         | ╁╾           | +-  | ╁┈   | $\vdash$            | $\dashv$    |                 | 78<br>79   | $\dashv$   | ╅                | +-                 | +                                      | -               | $\dashv$ |              | ┥          |              | 128<br>129   | $\vdash$                               |          | +        |            |           | _               |  | 4          |  |
|   |                   | 30                     | +                  | 十              | +       | 十            | ╁╌  | ┢╌   | $\vdash$            | -           | -               | 80         | $\dashv$   | $\dashv$         | ╅                  | +                                      |                 |          |              | † <i>:</i> | $\vdash$     | 130          |  |          | +        |            |           | _               | $\dashv$                               | 1          |  |
|   |                   | 31                     | T                  | 工              | $\top$  | 上            |   |  |                     |             |                 | 81         |            |                  |                    |  |                 |          |              | ] :        |              | 131          |  |          |          |            |           |                 |  | ]          |  |
|   |                   | 32                     | $\perp$            | $\perp$        |         | oxdot        | $oxed{\bot}$                                      | $oxed{oxed}$                                     |                     |             |                 | 82         |            | Į.               |                    |  |                 |          |              | ]          |              | 132          |  |          | ŀ        | ,          |           |                 |  | ]          |  |
|   |                   | 33                     | ╀                  | +              | -       | <del> </del> | ┿   | ┞  | $\sqcup$            | _           |                 | 83         |            | 4                | +                  |  |                 |          | _            | ۱۰,        | <u> </u>     | 133          |  | -        | -        | <u> </u> _ |           | $\dashv$        | $\dashv$                               | 4          |  |
| }   |                   | 34                     | ╁                  | ╬              | ╁       | ╀            | ╀   | ├—   | ╂╼╂                 | $\dashv$    |                 | 84<br>85   | $\dashv$   | +                | +-                 | +-                                     | $\vdash$        |          | - -          | -          |              | 134          |  |          | +-       |            |           | $\dashv$        |  | ┥ .        |  |
| }   |                   | 36                     | 十                  | 十              | +       | 十            | +   |  |                     | $\dashv$    |                 | 86         | $\vdash$   | +                | 十                  | +                                      | ┝╾┤             |          | -            | ┥ ·        | <b> </b>     | 136          |  | -        | -        |            |           | $\dashv$        | _                                      | -[         |  |
| Ì   |                   | 37                     | 十                  | 十              | 十       | +            | 十   |  | 1                   | -           |                 | 87         |            | 十                | +                  |  | H               | _        |              | 1          |              | 137          |  | _        | -        |            |           | $\dashv$        |  | 1          |  |
|   |                   | 88                     | I                  | I              |         | $oxed{oxed}$ | $oxed{1}$   |  |                     |             |                 | 88         |            |                  |                    |  |                 |          |              | ] ·        |              | 138          |  |          |          |            |           |                 |  | ]          |  |
|   |                   | 39                     | $oldsymbol{\perp}$ | $\bot$         |         | _            |   |  |                     |             | <u> </u>        | 89         | _          | _                | 4                  |  |                 |          |              | -          | <u> </u>     | 139          |  |          |          |            |           | _               | -                                      | 4          |  |
|   |                   | 10                     | igapha             | +              | +       | ╀            | ╁_  | <u> </u>   | $\vdash$            |             |                 | 90         |            | -                | - -                | $\leftarrow$                           |                 |          |              | -          |              | 140          |  |          | -        |            |           |                 |  | 4          |  |
| ļ   |                   | 2                      | +                  | +              | +       | +            | +-  | -  | ┝╌┼                 |             | <u> </u>        | 91<br>92   | +          | +                | +-                 | +                                      | $\vdash \vdash$ |          |              | ┨.         |              | 141          | -                                      |          |          |            | -         | -               | +                                      | 1          |  |
| ł   |                   | 3                      | +                  | +              | +-      | 十            | <del>                                      </del> |  |                     | $\dashv$    | <del></del>     | 93         | +          | +                | 十                  | $\dagger \exists$                      | $  \cdot  $     | +        |              | 1          |              | 143          |  |          | 1-       |            |           | 十               | +                                      | 1          |  |
| 1   | <del></del>       | 4                      | †                  | †              | 1       | $\top$       |   |  |                     | 7           |                 | 94         |            | 1                | _                  |  |                 |          | _            |            |              | 144          | -                                      |          | 1        |            |           | _               | _                                      | ]          |  |
| į   | 4                 | 5                      | I                  | I              |         |              |   |  |                     |             |                 | 95         |            | $\perp$          |                    |  |                 |          |              |            |              | 145          |  |          |          |            |           |                 |  | ]          |  |
| Ţ   |                   | 6                      | 1                  | $ \downarrow $ | 1       | <del> </del> | <b>_</b>  |  |                     | $\dashv$    |                 | 96         | $\prod$    | _[               | _                  | $\downarrow \downarrow$                |                 | [.       |              | 1          |              | 146          |  |          | -        |            |           | _               |  | 1 .        |  |
| ,   |                   | 7                      | +                  | +              | +-      | ┼-           | +-  | -  | $\vdash \downarrow$ |             | <b></b>         | 97         |            | -                | +                  | +                                      | $\vdash \vdash$ | $\dashv$ | _            | -          |              | 147          | -                                      |          | -        |            |           | +               | +                                      | 4          |  |
| }   |                   | 9                      | 十                  | +              | +       | +            | +   | -  | ┝┼                  |             | }               | 98<br>99   | +          | +                | +                  | ╫┤                                     | H               | -+       | -            | 1          | -            | 148          | -                                      |          | -        |            |           | $\dashv$        | +                                      | 1          |  |
| ł   |                   | 0                      | +                  | 十              | +       | <del> </del> | ╁   | $\vdash$   |                     | ┥           |                 | 100        | -          | +                | +                  | +                                      | H               | +        | _            | 1          |              | 150          | -                                      | +        | -        |            |           | +               | +                                      | 1          |  |
| L   | <del></del>       |                        |                    |                |         |              | لبسمة   | نـــــ   |                     |             |                 |            |            |                  |                    | لـــــــــــــــــــــــــــــــــــــ |                 |          |              | J          |              |              | ــــــــــــــــــــــــــــــــــــــ |          | <u> </u> |            |           |                 |  | _          |  |

Application No.

Index of Claims

Applicant(s)